

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 July 2004 (22.07.2004)

PCT

(10) International Publication Number
WO 2004/060292 A3

- (51) International Patent Classification⁷: **A61K 7/48**
- (21) International Application Number:
PCT/US2003/040790
- (22) International Filing Date:
19 December 2003 (19.12.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/331,069 27 December 2002 (27.12.2002) US
- (71) Applicant (*for all designated States except US*): **AVON PRODUCTS, INC.** [US/US]; Avon Place, Suffern, NY 10901 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **MCNAMARA, William, E.** [US/US]; 65 Grand Avenue, Middletown, NY 10940 (US). **MCKIE, Derrick, B.** [US/US]; 194 Hancock Street, Brooklyn, NY 11216-2104 (US). **KUREK, John, S.** [US/US]; 287 Reservoir Road, Goshen, NY 10924 (US). **MILOW, Clifford, A.** [US/US]; 55 Tanager Road, Monroe, NY 10950 (US). **GARRISON, Mark** [US/US]; 11 Mary Beth Drive, Suffern, NY 10950 (US). **CEN, Raymond** [US/US]; 9 McElroy Lane, Belle Mead, NJ 08502 (US).
- (74) Agent: **SANTINI, Anthony, M.**; Avon Products, INC., Avon Place, Suffern, NY 10901 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
- with international search report
 - before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:
9 December 2004
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: NON-PRESSURIZED POST-APPLICATION EXPANDING COMPOSITION

(57) Abstract: A post-application expanding composition for application to hair fibers of the scalp, eyebrows or eyelashes is provided. The composition comprises at least one surfactant, a solvent for the surfactant, and a volatile agent in an amount that will cause the surfactant and solvent to interact and foam on the hair fibers thereby producing an expanded composition. The composition further contains a film-forming agent in an amount effective to form a film which when set fixes at least a portion of the expanded composition in its expanded state. The volatile agent is solubilized in the composition, and is further dispersed throughout the composition in nanometer size droplets or generated in situ on the hair fibers or immediately prior to application thereto so that the composition is storable in a non-pressurized container.



WO 2004/060292 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/40790

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 7/48
US CL : 424/401, 70.7

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 424/401, 70.7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Harry's Cosmetology By Ralph Harry

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST (all data bases)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y — A	US 5,800,825 A (MCMULLEN) 01 September 1998 (01.09.1998), column 3; lines 45-65, column 5, column 6.	1-57 and 59 — 58
Y — A	US 6,030,630 A (FLEURY et al.) 29 February 2000 (02.20.2000), columns 7-8, column 9, lines 1-50, column 10, column 11, column 12, lines 1-22	1-57 and 59 — 58

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

22 September 2004 (22.09.2004)

Date of mailing of the international search report

22 OCT 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

JYOTHSNA A VENKAT Ph. D

Telephone No. 571-272-1600